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|-------------------------------|------------------------|---------------------|--|
| Notice of Allowability | Application No. | Applicant(s) | |
| | 10/798,150 | ADAMS, REED W. | |
| | Examiner | Art Unit | |
| | My-Trang N. Ton | 2816 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Tel. Int. 03/14/05.
2. ☒ The allowed claim(s) is/are 1-17, 19 and 20.
3. ☒ The drawings filed on 10 March 2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input checked="" type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date <u>03/14/05</u> . |
| 3. <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date <u>3/10/04</u> | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Att. Kempler on March 14, 2005.

The application has been amended as follows:

In the claims

In claim 7, line 1, after "detector", insert – further --.

In claim 8, line 1, after "detector", insert – further --.

In claim 11,

line 11, before "inductance", replace "the" (second occurrence) with – an --;

line 12, before "BVdss" replace "the" with – a --;

line 13, after "gate", replace ", the" with – providing a --.

In claim 17, line 2, before "resistor", insert – the --; and before "first", insert – the -

Cancel claim 18.

In claim 19, last line, replace "the" with – a --.

Reasons for allowance

The following is an examiner's statement of reasons for allowance:

The present invention is drawn to an FET switch having a clamp circuit utilizing an FET switching transistor, a surge detector having means for enabling, a first biasing circuit, a second biasing circuit, a biasing switching circuit, or a reverse voltage breakdown diode and a series resistor, a detector, a first biasing current source, a second biasing current source, a biasing current switching circuit recited in claims 1-17, 19-20. None of the prior art disclosed or suggested to show the particular structure and/or the particular operation recited in these claims namely: **“the second biasing current ... less than the first biasing current”** and **“the biasing switching circuit ... to clamp the surge voltage below the BVdss thereof”** in combination with “the FET switching transistor”, “the surge detector” and “the first biasing circuit” as recited in claim 1; **“the detector”**, **“the first biasing current source”**, **“the second biasing current source”**, **“the biasing current switching circuit”** in combination with “the FET switching transistor” and “the reverse voltage breakdown diode and the series resistor” as recited in claim 11; **“the first switchable current source”** and **“the second current source”** in combination with “the reverse breakdown diode and the resistor” and “the surge detector” as recited in claim 19.

The prior art reference submitted by the applicant on IDS form received on 3/10/04 was reviewed and considered. This reference (U.S Patent No. 6,169,439) appears to be the best reference with respect to the claimed invention and closely matched with the reference found during the examiner's searches. However, as noted above, this reference also lacks at least one limitation: i.e., **“the biasing switching circuit”** (claim 1); **“the series resistor”**, **“the first biasing current source”**, **“the**


biasing current switching circuit" (claim 11); **"the first switchable current source"** and **"the second current source"** (claim 19). Therefore, the claims are patentably distinct over this prior art reference of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to My-Trang N. Ton whose telephone number is 571-272-1754. The examiner can normally be reached on 7:00 a.m - 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


My-Trang N. Ton
Primary Examiner
Art Unit 2816

3/14/05